

0400

(110)

C-1-1



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,896

DATE: 02/11/2002

TIME: 10:20:09

Input Set : A:\GENENT.074A.txt

Output Set: N:\CRF3\02112002\J044896.raw

ENTERED

4 <110> APPLICANT: Chuntharapai, Anan  
 5 Kim, Jin K.  
 6 Stewart, Timothy  
 7 Presta, Leonard G.  
 9 <120> TITLE OF INVENTION: ANTI-INTERFERON-ALPHA ANTIBODIES  
 12 <130> FILE REFERENCE: GENENT.074A  
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/044,896  
 C--> 14 <141> CURRENT FILING DATE: 2002-01-09  
 14 <150> PRIOR APPLICATION NUMBER: 60/270775  
 15 <151> PRIOR FILING DATE: 2001-02-22  
 17 <160> NUMBER OF SEQ ID NOS: 14  
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 114  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: Murine  
 26 <400> SEQUENCE: 1  
 27 Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly  
 28 1 5 10 15  
 29 Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Ser Thr Ser  
 30 20 25 30  
 31 Ser Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro  
 32 35 40 45  
 33 Lys Val Leu Ile Ser Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ala  
 34 50 55 60  
 35 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His  
 36 65 70 75 80  
 37 Pro Val Glu Glu Gly Asp Thr Ala Thr Tyr Phe Cys Gln His Ser Trp  
 38 85 90 95  
 39 Gly Ile Pro Arg Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Arg Arg  
 40 100 105 110  
 41 Ala Val  
 45 <210> SEQ ID NO: 2  
 46 <211> LENGTH: 119  
 47 <212> TYPE: PRT  
 48 <213> ORGANISM: Murine  
 50 <400> SEQUENCE: 2  
 51 Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala  
 52 1 5 10 15  
 53 Ser Val Lys Ile Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Glu Tyr  
 54 20 25 30  
 55 Ile Ile His Trp Val Lys Gln Gly His Gly Arg Ser Leu Glu Trp Ile  
 56 35 40 45

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57 Gly Ser Ile Asn Pro Asp Tyr Asp Ile Thr Asn Tyr Asn Gln Arg Phe  
58 50 55 60  
59 Lys Gly Lys Ala Thr Leu Thr Leu Asp Lys Ser Ser Arg Thr Ala Tyr  
60 65 70 75 80  
61 Leu Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys  
62 85 90 95  
63 Ala Ser Trp Ile Ser Asp Phe Phe Asp Tyr Trp Gly Gln Gly Thr Thr  
64 100 105 110  
65 Leu Met Val Ser Ala Ala Ser  
66 115  
69 <210> SEQ ID NO: 3  
70 <211> LENGTH: 114  
71 <212> TYPE: PRT  
72 <213> ORGANISM: Artificial Sequence  
74 <220> FEATURE:  
75 <223> OTHER INFORMATION: This sequence represents a humanized chimeric  
76 antibody comprising human and non-human sequences.  
78 <400> SEQUENCE: 3  
79 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
80 1 5 10 15  
81 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Val Ser Thr Ser  
82 20 25 30  
83 Ser Tyr Ser Tyr Met His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro  
84 35 40 45  
85 Lys Val Leu Ile Ser Tyr Ala Ser Asn Leu Glu Ser Gly Val Pro Ser  
86 50 55 60  
87 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser  
88 65 70 75 80  
89 Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Ser Trp  
90 85 90 95  
91 Gly Ile Pro Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg  
92 100 105 110  
93 Thr Val  
97 <210> SEQ ID NO: 4  
98 <211> LENGTH: 110  
99 <212> TYPE: PRT  
100 <213> ORGANISM: Homo sapiens  
102 <400> SEQUENCE: 4  
103 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
104 1 5 10 15  
105 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Tyr  
106 20 25 30  
107 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
108 35 40 45  
109 Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly  
110 50 55 60  
111 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
112 65 70 75 80  
113 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Leu Pro Trp

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114                   85                   90                   95  
115 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val  
116                   100                   105                   110  
119 <210> SEQ ID NO: 5  
120 <211> LENGTH: 119  
121 <212> TYPE: PRT  
122 <213> ORGANISM: Artificial Sequence  
124 <220> FEATURE:  
125 <223> OTHER INFORMATION: This sequence represents a humanized chimeric  
126                   antibody comprising human and non-human sequences.  
128 <400> SEQUENCE: 5  
129 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
130   1                   5                   10                   15  
131 Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Tyr Thr Phe Thr Glu Tyr  
132   20                   25                   30  
133 Ile Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
134   35                   40                   45  
135 Ala Ser Ile Asn Pro Asp Tyr Asp Ile Thr Asn Tyr Asn Gln Arg Phe  
136   50                   55                   60  
137 Lys Gly Arg Phe Thr Ile Ser Leu Asp Lys Ser Lys Arg Thr Ala Tyr  
138   65                   70                   75                   80  
139 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
140                   85                   90                   95  
141 Ala Ser Trp Ile Ser Asp Phe Phe Asp Tyr Trp Gly Gln Gly Thr Leu  
142                   100                   105                   110  
143 Val Thr Val Ser Ser Ala Ser  
144                   115  
147 <210> SEQ ID NO: 6  
148 <211> LENGTH: 119  
149 <212> TYPE: PRT  
150 <213> ORGANISM: Homo sapiens  
152 <400> SEQUENCE: 6  
153 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
154   1                   5                   10                   15  
155 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
156                   20                   25                   30  
157 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
158                   35                   40                   45  
159 Ala Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
160                   50                   55                   60  
161 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
162                   65                   70                   75                   80  
163 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
164                   85                   90                   95  
165 Ala Arg Gly Arg Val Gly Tyr Tyr Asp Tyr Trp Gly Gln Gly Thr Leu  
166                   100                   105                   110  
167 Val Thr Val Ser Ser Ala Ser  
168                   115  
171 <210> SEQ ID NO: 7

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172 <211> LENGTH: 15  
173 <212> TYPE: PRT  
174 <213> ORGANISM: Homo sapiens  
176 <400> SEQUENCE: 7  
177 Arg Ala Ser Gln Ser Val Ser Thr Ser Ser Tyr Ser Tyr Met His  
178 1 5 10 15  
181 <210> SEQ ID NO: 8  
182 <211> LENGTH: 7  
183 <212> TYPE: PRT  
184 <213> ORGANISM: Homo sapiens  
186 <400> SEQUENCE: 8  
187 Tyr Ala Ser Asn Leu Glu Ser  
188 1 5  
191 <210> SEQ ID NO: 9  
192 <211> LENGTH: 10  
193 <212> TYPE: PRT  
194 <213> ORGANISM: Homo sapiens  
196 <400> SEQUENCE: 9  
197 Gln His Ser Trp Gly Ile Pro Arg Thr Phe  
198 1 5 10  
201 <210> SEQ ID NO: 10  
202 <211> LENGTH: 10  
203 <212> TYPE: PRT  
204 <213> ORGANISM: Homo sapiens  
206 <400> SEQUENCE: 10  
207 Gly Tyr Thr Phe Thr Glu Tyr Ile Ile His  
208 1 5 10  
211 <210> SEQ ID NO: 11  
212 <211> LENGTH: 17  
213 <212> TYPE: PRT  
214 <213> ORGANISM: Homo sapiens  
216 <400> SEQUENCE: 11  
217 Ser Ile Asn Pro Asp Tyr Asp Ile Thr Asn Tyr Asn Gln Arg Phe Lys  
218 1 5 10 15  
219 Gly  
223 <210> SEQ ID NO: 12  
224 <211> LENGTH: 8  
225 <212> TYPE: PRT  
226 <213> ORGANISM: Homo sapiens  
228 <400> SEQUENCE: 12  
229 Trp Ile Ser Asp Phe Phe Asp Tyr  
230 1 5  
233 <210> SEQ ID NO: 13  
234 <211> LENGTH: 30  
235 <212> TYPE: DNA  
236 <213> ORGANISM: Homo sapiens  
238 <400> SEQUENCE: 13  
239 gatcgggaaa gggaaaccga aactgaagcc 30  
241 <210> SEQ ID NO: 14

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242 <211> LENGTH: 30  
243 <212> TYPE: DNA  
244 <213> ORGANISM: Homo sapiens  
246 <400> SEQUENCE: 14  
247 gatcggcttc agtttcggtt tccctttccc

30

**VERIFICATION SUMMARY**

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L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date